

Patent
TH2429 (US)
HS:KNL

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the accompanying application of)
P. I. CHIPMAN ET AL) Group Art Unit :
Filed February 27, 2004) Examiner:
METHOD OF IMPROVING THE) February 27, 2004
OPERATION OF A MANUFACTURING)
PROCESS)

)

COMMISSIONER FOR PATENTS
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.56 AND 1.97

It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein. Full text copies of the relevant documents are enclosed.

Applicants wish to bring the following to the Examiner's attention. In ethylene oxide producing plants the existing, used charge of catalyst is regularly replaced by a fresh charge of the same or a different catalyst. Applicants are aware of a plant in the USA in which a used high activity catalyst was replaced by a fresh high selectivity catalyst, more than a year prior to February 28, 2003. Applicants are also aware of an ethylene oxide producing plant in the USA in which more than a year prior to February 28, 2003 the concentration of carbon dioxide in the ethylene/oxygen feed was reduced to a level of about 1 mole percent, after replacing the high selectivity catalyst by a fresh charge of high selectivity catalyst. However, Applicants are not aware of any public use, or any commercial

practice, in the USA of the invention as claimed in the present patent application more than a year prior to February 28, 2003.

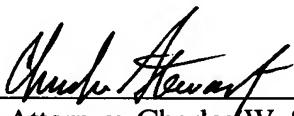
If any fee is required, the Examiner is authorized to charge the required fee to Shell Oil Company, Deposit Account No. 19-1800.

The Examiner is requested to indicate consideration of this art on the attached PTO-1449 (Modified) by initialing next to each item submitted by the Applicant.

Respectfully submitted,

P. I. CHIPMAN ET AL

By


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Attachment: PTO-1449 Form (Modified)

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
TH-2429 (US)

APPLICATION NUMBER

LIST OF INFORMATION PROVIDED
BY APPLICANT
(Use several sheets if necessary)

APPLICANT
P.I. CHIPMAN ET AL

FILING DATE GROUP ART UNIT

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	AA	4,761,394	8/88	Lauritzen	502	348	
	AB	4,766,105	8/88	Lauritzen	502	216	
	AC	5,380,697	1/95	Matusz et al	502	348	
	AD	4,845,296	7/89	Ahmed et al	564	477	
	AE	5,187,140	2/93	Thorsteinson et al	502	348	
	AF	5,840,932	11/98	Evans et al	549	512	
	AG	6,372,925	4/02	Evans et al	549	536	
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes No
	AL	WO-01/96324	12/01	WO			
	AM						
	AN						
	AO						

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	AR	Brunauer, Emmet & Teller. J. Am. Chem. Soc. 60 (1938); pgs. 309-316.
	AS	
	AT	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
2. This is not a representation that a search has been made.